

## CLAIMS

1. Device (1) for preparing a melt, especially a plastic melt, with a feed device (2) for material components, where the device (1) has at least one cleaning unit (4) for the melt passing through, especially a rotating screen disk (5), and at least one sensor unit (17, 18, 19, 20, 21) for detecting one or more process parameters, by means of which and in the knowledge of the filter-specific process data the work of the cleaning unit (4) can be influenced, characterized in that, on the basis of the determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data, the process materials being supplied by the feed device (2) can be controlled at least with respect to type and metering rate and/or the parameters under which the materials are processed.

2. Device (1) for preparing a melt, especially a plastic melt, with a feed unit(2) for material components, where the device (1) has at least one cleaning unit (4) for the melt passing through, especially a rotating screen disk (5), and at least one sensor unit (17, 18, 19, 20, 21) for detecting one or more process parameters, by means of which and in the knowledge of the filter-specific parameters the work of the cleaning unit (4) can be influenced, especially in accordance with Claim 1,

characterized in that, on the basis of determined (17, 18, 19, 20, 21) process parameters and/or the filter-specific process data, the process parameters of the device (1) and/or the process parameters of a further-processing unit downstream from the cleaning unit (4), especially a chopper, a valve of a plastic processing machine, or the like, can be controlled.

3. Device according to Claim 1 or Claim 2, characterized in that the cleaning unit (4) and the feed unit (2) are controlled on the basis of the data in an interdependent manner.

4. Device according to Claim 2 or Claim 3, characterized in that the cleaning unit (4) and the process parameters are controlled on the basis of the data in an interdependent manner.

5. Device according to one of Claims 1-4, characterized in that, on the basis of the determined process parameters and/or the filter-specific process data, information can be generated for quality management (28) and/or purchasing.